

## Mapping Using Mathematics to Occupational Studies Unit:- **Bench Joinery**

### **Requirements for Using Mathematics**

Choose the appropriate materials, equipment and mathematics to use in a particular situation.

Use mathematical knowledge and concepts accurately.

Work systematically and check their work.

Use mathematics to solve problems and make decisions.

Develop methods and strategies, including mental mathematics.

Explore ideas, make and test predictions and think creatively.

Use mathematical understanding and language to ask and answer questions, talk about and discuss ideas and explain ways of working.

Use ICT to solve problems and/or present their work.

### **Opportunities for teaching and learning from Unit Specification**

Select appropriate clothing for example, safety boots, goggles etc.

Measure, mark our work, and create an accurate cutting list from a range of materials most of which should be from sustainable forests.

Create an accurate cutting list of materials required.

Select and use hand held power tools at an appropriate time in the manufacture of a bench joinery component.

Measure, mark out work, and create an accurate cutting list from a range of materials most of which should be from sustainable forests.

Read drawings and set out dimensions on timber.

Perform the following craft operations: cut timber to length; cut sheet material to size and plane timber to size.

Select and use hand held power tools at an appropriate time in the manufacture of a bench joinery component.

Manufacture a joinery item incorporating solid timber and manufactured board combined with joints, adhesives and appropriate fasteners.

Evaluate their own performance in all tasks carried out.

Produce a detailed working drawing of the end product.

